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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/038,539	01/03/2002	Ning Mo	2705-200	7096	
20575 7	590 01/20/2006		EXAMINER		
	HNSON & MCCOL RISON STREET, SUIT	JUNG, MIN			
PORTLAND,	•	E 400	ART UNIT	PAPER NUMBER	
			2663		
			DATE MAILED: 01/20/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Ap	plication No.	Applicant(s)	<u>_</u>			
	10	/038,539	MO ET AL.				
Office Action Summary		aminer	Art Unit				
	Mir	n Jung	2663	ĺ			
The MAILING DATE of this of Period for Reply	ommunication appears	on the cover sheet v	vith the correspondence ad	dress			
A SHORTENED STATUTORY PE WHICHEVER IS LONGER, FROM - Extensions of time may be available under the after SIX (6) MONTHS from the mailing date of - If NO period for reply is specified above, the m - Failure to reply within the set or extended perion Any reply received by the Office later than thre earned patent term adjustment. See 37 CFR 1	THE MAILING DATE provisions of 37 CFR 1.136(a). It his communication. aximum statutory period will apped for reply will, by statute, cause e months after the mailing date	OF THIS COMMUN In no event, however, may a oly and will expire SIX (6) MO to the application to become A	ICATION. I reply be timely filed INTHS from the mailing date of this case ABANDONED (35 U.S.C. § 133).				
Status			·				
1) Responsive to communication	on(s) filed on <i>03 Janua</i>	rv 2002.					
2a) This action is <b>FINAL</b> .	2b)⊠ This acti	<del>-</del>					
3) Since this application is in co	•		tters, prosecution as to the	e merits is			
closed in accordance with th	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-40</u> is/are pending	in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowe							
6) Claim(s) <u>1-5,8-15,18-25,28-3</u>		ected.					
7) Claim(s) 6,7,16,17,26,27,36	•						
8) Claim(s) are subject to							
Application Papers							
9) The specification is objected	to by the Examiner						
10)☐ The drawing(s) filed on	<u> </u>	d or b)□ objected to	by the Examiner				
Applicant may not request that a							
Replacement drawing sheet(s) i			, ,	FR 1.121(d).			
11)☐ The oath or declaration is obj		· · · · ·	- · · ·	• •			
Priority under 35 U.S.C. § 119							
12)☐ Acknowledgment is made of	a claim for foreign prior	rity under 35 U.S.C.	& 119(a)-(d) or (f)				
a) ☐ All b) ☐ Some * c) ☐ No	ne of:		3 1 7 5 (4) (4) 51 (1).				
1. ☐ Certified copies of the							
2. ☐ Certified copies of the				_			
. 3. Copies of the certified application from the In			n received in this National	Stage			
* See the attached detailed Office		, .,	t received.				
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Attachment(s)							
1) Notice of References Cited (PTO-892)		4) Interview	Summary (PTO-413)				
2) 🔲 Notice of Draftsperson's Patent Drawing F		Paper No	(s)/Mail Date				
<ol> <li>Information Disclosure Statement(s) (PTC Paper No(s)/Mail Date</li> </ol>	-1449 or PTO/SB/08)	5) Notice of 6) Other:	Informal Patent Application (PTC	J-152)			

#### **DETAILED ACTION**

#### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1, 2, 4, 5, 8-12, 14, 15, 18-22, 24, 25, 28-32, 34, 35, 38-40 are rejected under 35 U.S.C. 102(e) as being anticipated by Bharucha et al., US Pat. 6,697,353 (Bharucha).

Bharucha discloses voice-over-ATM technique, which allows congestion dependant transport of silence cells. Bharucha teaches receiving voice in STM, processing it in a terminal adapter, and transmitting it over ATM network, as shown in Fig. 1.

Specifically regarding the present claims 1, 11, 21, and 31, Bharucha teaches a network interface for coupling to a network (the connection 31 shown to connect terminal adapter 4 to an ATM switch (Fig. 1); a processor coupled with the network interface (terminal adapter 4), in which the processor is adapted to receive voice signals (voice signals received from STM switch 3, see col. 4, lines 55-57); group the voice signals into a plurality of serial data speech frames (the function of signal classifier 21, see col. 4, lines 57-64); analyze the voice signals of at least some of the data speech frames to classify each in one of a plurality of different types of speech (silence detection and marking, see col. 5, lines 15-31); determine a comparative discardability for some of the data speech frames relative to others from the type of speech (silence. partial voice spurts, and speech, see col. 5, lines 26-36); encapsulate the data speech frames into data packets, at least some of the data packets including a comparative discardability code indicating the determined comparative discardability of the encapsulated data speech frames (STM-to-ATM converter 24, see col. 5, lines 5-14); and transmit the data packets through a packet switched network (ATM cells transmitted through the STM network 12, see Fig. 1).

Regarding claims 8, 18, 28, and 38, Bharucha discloses the device and method functioning to receive the voice data packet transmitted over the ATM network according to the device and method as addressed above. Specifically, Bharucha teaches that the processor (terminal adapter 4) functions to receive voice data packet; store the received packets in a buffer (buffer B, 29); retransmit some of the stored packets through the network (cell dropping may occur at any network element

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throughout the network, see col. 6, lines 6-12); extract a comparative discardability code of a specific one of the stored packets relative to the others, wherein the comparative discardability code is related to a preset type of encoded speech (the marking is related to different types of encoded speech including silence, partial voice spurts, and speech, see col. 5, lines 28-31); make a discard decision for the specific packet in accordance with the extracted comparative discardability code and the preset type of speech (col. 5, lines 31-36, and col. 6, lines 6-12); and delete the specific packet without retransmitting it if the discard decision is to drop the packet (col. 6, lines 6-12).

Regarding claims 2, 12, 22, and 32, Bharucha teaches that the cells may be marked (discardability indication) using CLP bit. CLP bit is utilized in ATM network implementing communication for real time data, and therefore CLP bit is a kind of RTP header portion.

Regarding claims 4, 5, 14, 15, 24, 25, 34, and 35, Bharucha teaches that silence is assigned a high comparative discardability, and transition from one type to another is assigned a low comparative discardability. (see col. 5, lines 31-36).

Regarding claims 9, 19. 29, and 39, Bharucha teaches sensing a congestion in the network, and extracting the comparative discardability code responsive to sensing the congestion (see col. 6, lines 4-6).

Regarding claims 10, 20, 30, and 40, Bharucha teaches setting a discarding probability and making the discard decision in accordance with the set discarding probability (for example, Bharucha teaches that the probability of discarding silence cell is the highest, see col. 5, lines 31-36).

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#### Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 3, 13, 23, and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bharucha.

Regarding claims 3, 13, 23, and 33, Bharucha fails to teach the types of speech including polsed speech. Since the term "polsed" is defined in the specification as a type of sound (specification, page 10), and Bharucha teaches several types of voice activity such as silence, partial voice spurts, and speech, it would have been obvious for one of ordinary skill in the art at the time of the invention to implement Bharucha by including other types of voice activity such as polsed speech to classify voice activity in a finer detail.

## Allowable Subject Matter

- 5. Claims 6, 7, 16, 17, 26, 27, 36, and 37 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. The following is a statement of reasons for the indication of allowable subject matter: Prior art fails to teach a device and method as recited in the present invention

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specifically including the features of assigning a similar comparative discardability to a first preset number of serially occurring data speech frames of a first one of the types of speech; and assigning a next occurring data speech frame of the first type of speech a higher comparative discardability.

### Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The Bharucha patents (2), Graumann et al. patent, and the Li et al. patent, are cited for further references.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Min Jung whose telephone number is 571-272-3127. The examiner can normally be reached on Monday through Friday 9:00 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on 571-272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MJ January 18, 2006 Min Jung

**Primary Examiner**